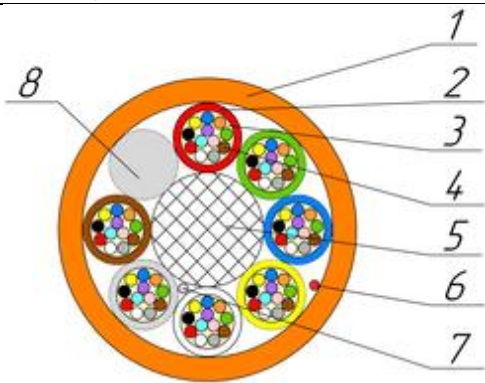


## TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

### 1. Cable construction

Cable type	A-DQ(ZN)2Y-(1-8)x12-1035b/ A-DQ(ZN)2Y-(1-8)x12-1036b/A-DQ(ZN)4Y-(1-8)x12-1036b		
Standards	IEC 60793, IEC 60794		
			
Cable construction	<p>1. Outer sheath: UV-resistant PE/PA                  2. Optical loose tube: PBT Tube                  3. Intramodule compound: Thixotropic compound                  4. Optical Fiber: Single-mode Fiber<sup>1</sup>                  5. Central strength element: Glass reinforced plastic FRP-E                  6. Rip-cord: Water-swellaable yarn                  7. Water-blocking element of core: Water-swellaable yarn                  8. Core filler: PE</p>		
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -40 to +70 °C	from -10 to +50 °C	from -40 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35° C, %	98		
Outer diameter, mm	6,0±0,2		
Average weight of 1 km of the cable, kg	33±5%		

### 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>2</sup> , kN Dynamic	2
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
Resistance to axial torsion at angle ±360° on 2m length cable	Resistant
Resistance to bends at angle ± 90° with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 2 J	Resistant

<sup>1</sup> Can be used:

-250 μm Single-mode Fiber according to ITU-T G.652.D or G.652.D/G.657.A1

-200 μm Single-mode Fiber according to ITU-T G.652.D/G.657.A1

<sup>2</sup> Tensile strength value is for maximum number of fibers design

### 3. Packaging and marking

Cable factory length, km	6
Package	Drum №10 (1000x630x1000)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

### 4. Coloring

Coloring of fibers in loose tube (According to Customer's requirements color can be different).											
1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink

Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is natural.							
1	2	3	4	5	6	7	8
red	green	blue	yellow	white	slate	brown	violet

Cable sheath coloring			
Cable type	1036b	1035b	1036b
Sheath material	PE		PA
Color	Black	Orange	

### 5. Product data

Fiber count	12	24	36	48	72	96
Loose tubes x fibers	1x12	2x12	3x12	4x12	6x12	8x12